

ANIRUDH SUDHIR

+91-6361454703 ◊ Bangalore, India

Mail: anirudh.sudhir1@gmail.com

Website: <https://sudhir.live>

LinkedIn: <https://linkedin.com/in/anirudhsudhir>

GitHub: <https://github.com/anirudhsudhir>

EDUCATION

Bachelor of Technology, Computer Science

2023 - 2027

PES University - CGPA: 9.55

Bangalore, India

Awarded the MRD scholarship twice for academic excellence.

SKILLS

Languages Go, Rust, C, Python, SQL, HTML, CSS

Technologies Docker, eBPF, Git, Github, MySQL, SQLite

EXPERIENCE

PES Innovation Lab

July 2024

Project - HyperDistillation

- Collaborated in a team of two to develop HyperDistillation, a Golang tool to trace network traffic between containers and hosts outside of a Kubernetes cluster, using eBPF.
- Implemented TCP tracing using Inspektor Gadget, a series of eBPF-based programs, along with filtering and graph generation.

ACM Industrial Experience Program

Mar 2024 - Apr 2024

Student Developer

- The ACM Industrial Experience Program is an annual mentorship program, where the development pipeline used in the industry is emulated for a variety of projects.
- Worked in a team of four to build [anna](#), a static site generator written in Go.
- Collaborated on various features such as live reload, collections and tags and worked on TDD-backed rebuild of the project to improve performance and maintainability.

Technical Mentor

Oct 2023 - Present

HSP - Hackerspace PESU ECC

- Assisted in the organisation and conduction of various workshops and events held by HSP, a student-run developer community with an open-source wing.
- Co-hosted a workshop on eBPF, where participants understood the need to program the kernel and wrote simple applications to trace syscalls and network packets respectively.
- Delivered talks on the projects [Qapture](#) and [anna](#) at the HSP Mentor Expo and Fireside Talks respectively.

PROJECTS

Anna: Anna is a highly performant static site generator written in Go, capable of beating Eleventy and Hugo on certain benchmarks. It includes features such as parallel rendering, live reload and collections.

Kvs: A Bitcask-like log-structured key-value store with an in-memory index, written in Rust.

Spidey: A concurrent web crawler written in Go with a consistent crawl rate of over 10,000 links per minute. During a run, Spidey discovered 16,000 links in a minute.

Qapture: Qapture is a C-based command line tool to recover deleted JPEGs from a forensic RAW image.

Sqlite: A partial clone of SQLite in C which reads and writes entries to a pre-defined table, along with reading and flushing of data to disk.